

Japanese Laid-open Patent

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SPECIFICATION

1. Title of the Invention

Liquid crystal filling method and apparatus

2. Scope of Claims

(1) A liquid crystal filling method characterized in that: a step of fixedly positioning a glass plate having a desired orientation film pattern, and on which an adhesive is applied; a step of dripping a fixed amount of liquid crystal onto a surface of the glass plate with the atmosphere; a step of aligning and overlapping with another glass plate having a desired orientation film pattern from above the liquid crystal; a step of applying a load to the periphery, excluding one side, of both of the glass plates, so as to bond both of the glass plates, and obtaining a glass substrate; a step of making air within voids of the glass substrate collect by using a vacuum while applying a load to the periphery, excluding one side; and a step of removing the air within the voids by applying pressure to the glass substrate, to which the load is applied in the periphery, excepting the one side, so as to stroke a center portion; are performed.

(2) The liquid crystal filling method according to claim 1, characterized in that, within the atmosphere, the air within the voids is removed by applying pressure to the glass substrate, to which the load is applied in the periphery, excepting one side, so as to stroke the center portion.